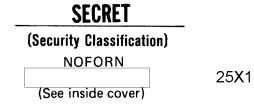
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SECRET 25X1 (c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER Page  $\underline{1}$  of  $\underline{1}$ Z-17260/84 Attachment to Сору\_\_\_\_ NPIC/IEG (2/84) 15 FEBRUARY 1984 PROBABLE TESTING OF GAS TURBINE-POWERED MEDIUM TANKS MOSKVA AIRCRAFT ENGINE RESEARCH CENTER (SWN) MYACHKOVO TSIAM, USSR 25X1 1. SIGNIFICANCE: IMAGERY OF MOSKVA AIRCRAFT ENGINE RESEARCH CENTER MYACHKOVO TSIAM DURING 1983 INDICATED THAT THE SOVIETS WERE PROBABLY TESTING MEDIUM TANKS POWERED BY GAS TURBINE POWER PLANTS. (SWN) A CANVAS-COVERED MEDIUM TANK WAS REMARKS: 2. 25X1 IN FRONT OF THE LARGE, OUTDOOR WIND GENERATOR IN THE WEST-CENTRAL PORTION OF TSIAM. 25X1 SECOND MEDIUM TANK WAS ADJACENT TO THE OUTDOOR FACILITY. THE TANKS 25X1 APPEARED 25X1 TO BE EQUIPPED WITH TWO POSSIBLE REAR FENDER-MOUNTED FUEL TANKS, A FEATURE PREVIOUSLY IDENTIFIED ONLY ON THE SOVIET THE TWO MEDIUM TANKS WERE LAST M-1983/1 MEDIUM TANK. AND HAD BEEN OBSERVED AT THIS FACILITY 25X1 PRIOR TO 1983, NO SOVIET GROUND 25X1 FORCES VEHICLE HAD EVER BEEN IDENTIFIED AT TSIAM. THE OUTDOOR WIND GENERATOR (ALSO REPORTED AS THE AIR EJECTOR TEST FACILITY) WAS CONSTRUCTED DURING THE LATE 1960s TO FACILITATE THE TESTING OF VARIOUS GAS TURBINE ENGINES (TURBOFAN, TURBOJET, TURBOSHAFT, AND TURBOPROP). FACILITY PERMITS TESTING OF THESE ENGINES UNDER BOTH NORMAL AND ADVERSE OPERATING CONDITIONS. PLACING A TEST ARTICLE DOWNSTREAM FROM THE WIND GENERATOR ALLOWS INVESTIGATION OF THE EFFECTS OF INDUCTED AIRFLOW TO THE ENGINE AND PROVIDES INFORMATION ON SUCH ITEMS AS FLOW RATES, CROSSWIND EFFECTS, AND COMPRESSOR STALLS. THIS INFORMATION IS VITAL IN BOTH ENGINE DEVELOPMENT AND INLET DESIGN. THE ASSOCIATION OF MEDIUM TANKS WITH THIS FACILITY STRONGLY SUGGESTS THAT THEY ARE EQUIPPED WITH A GAS TURBINE POWER PLANT, AS IS THE US M1 ABRAMS MAIN BATTLE TANK, AND NOT A DIESEL ENGINE, WHICH IS THE STANDARD POWER PLANT OF MOST SOVIET ARMORED VEHICLES. (SWN) 25X1 25X1 3. COORDINATES 55-33-52N 037-56-54E (S)25X1 These notes have been prepared for briefing purposes only and should not be used for detailed analytical work Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. WARNING NOTICE INTELLIGENCE SOURCES OR METHODS INVOLVED SECRET

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